

A Novel Current-Mode OTA-C Universal Filter

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Abstract

A novel current-mode biquad circuit is presented. The circuit uses two single-output-, one multiple-output-operational transconductance amplifiers (OTAs), two grounded capacitors and can realize lowpass, highpass, bandpass, notch, lowpass notch, highpass notch and allpass responses from the same topology. The parameters ω_0 and ω_0/Q_0 enjoy independent electronic tunability. Simulation results are included.